



LDWSF
12.3.60V3
Pace Analytical Services, Inc.
940 South Harney St.
Seattle, WA 98108
Phone: 206.767.5060
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Certificate of Analysis

Client: ICS-Washington
7152 1st Avenue South
Seattle, WA 98108

ATTN: Rick Cabuco

Work ID:

SDG Number: **ICSH080502**

Taken By: **CLIENT**

Date Received: **05/28/2008**

Transported By: **CLIENT**

Date Reported: **06/18/2008**

Sample Identification:

Lab Sample ID	Sample Description	Collection Date/Time	Type
ICSH080502-001	FILTER PRESS CAKE	05/28/2008 11:00	Soil

Flagging:

J = The value reported is below the routine reporting limit and should be considered an estimate

U = The analyte of interest was not detected, to the limit of detection indicated

Comments:

MATRIX SPIKE ANALYSIS:

The MS recoveries for lead and silver fell outside the normal control limits. Since all other QC was in control, no further action was taken.

DUPLICATE ANALYSIS:

The RPD for barium and lead fell outside the normal control limits. Since all other QC was in control, no further action was taken.

Date Printed: 6/18/2008 12:57





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Unless otherwise instructed all samples with the exception of samples which are consumed during the analysis, such as microbiological samples, will be disposed of on or after 7/26/08

Respectfully submitted,

Pace Analytical Services, Inc.

Hugh S. Prentice



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TCLP Results

Lab Sample ID: ICSH080502-001

Client Sample ID: FILTER PRESS CAKE

Date Received: 05/28/2008 Collection Date: 05/28/2008

Date Extracted: 06/02/2008

Concentration Units: mg/L

EPA HW #	Analyte	Result	MCL	Run Sequence	Analysis Date
D004	Arsenic	0.0200 U	5	R028602	06/04/2008
D005	Barium	0.343	100	R028602	06/04/2008
D006	Cadmium	0.0286	1	R028602	06/04/2008
D007	Chromium	0.0115	5	R028602	06/04/2008
D008	Lead	0.902	5	R028602	06/04/2008
D010	Selenium	0.0200 U	1	R028602	06/04/2008
D011	Silver	0.0100 U	5	R028602	06/04/2008
D009	Mercury	0.000139 J	0.2	R028608	06/04/2008

MCL = Maximum Contamination Level, as established by regulation.

EPA HW # = EPA Hazardous Waste Number



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TCLP Results

Lab Sample ID: ICSH080502-001

Client Sample ID: FILTER PRESS CAKE

Date Received: 05/28/2008 Collection Date: 05/28/2008

Date Extracted: 06/04/2008

Concentration Units: ug/L

EPA HW #	Analyte	Result	MCL	Run Sequence	Analysis Date
D038	Pyridine	20 U	5000	R028702	06/09/2008
D041	2,4,5-Trichlorophenol	12 U	400000	R028702	06/09/2008
D042	2,4,6-Trichlorophenol	8.0 U	2000	R028702	06/09/2008
D027	1,4-Dichlorobenzene	4.0 U	7500	R028702	06/09/2008
D023	o-cresol	4.0 U	200	R028702	06/09/2008
D034	Hexachloroethane	8.0 U	3000	R028702	06/09/2008
D036	Nitrobenzene	4.0 U	2000	R028702	06/09/2008
D033	Hexachlorobutadiene	4.0 U	500	R028702	06/09/2008
D030	2,4-Dinitrotoluene	8.0 U	130	R028702	06/09/2008
D032	Hexachlorobenzene	8.0 U	130	R028702	06/09/2008
D037	Pentachlorophenol	40 U	100000	R028702	06/09/2008

MCL = Maximum Contamination Level, as established by regulation.

EPA HW # = EPA Hazardous Waste Number

ZHE-TCLP Results

Lab Sample ID: ICSH080502-001

Client Sample ID: FILTER PRESS CAKE

Date Received: 05/28/2008 Collection Date: 05/28/2008

Date Extracted: 06/10/2008

Concentration Units: ug/L

EPA HW #	Analyte	Result	MCL	Run Sequence	Analysis Date
D043	Vinyl chloride	1.0 U	200	R028720	06/10/2008
D029	1,1-Dichloroethene	1.0 U	700	R028720	06/10/2008
	2-Butanone	5.0 U	200000	R028720	06/10/2008
D022	Chloroform	1.0 U	6000	R028720	06/10/2008
D019	Carbon tetrachloride	1.0 U	500	R028720	06/10/2008
D018	Benzene	1.0 U	500	R028720	06/10/2008
D028	1,2-Dichloroethane	1.0 U	500	R028720	06/10/2008
D040	Trichloroethene	1.0 U	500	R028720	06/10/2008
D039	Tetrachloroethene	1.0 U	700	R028720	06/10/2008
D021	Chlorobenzene	1.0 U	100000	R028720	06/10/2008

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EPA HW # = EPA Hazardous Waste Number



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Appendix

Quality Control Report



Pace Analytical Services, Inc.

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Pace Analytical Services, Inc.

Blank Report

Test: 6010B Metals TCLP-7 Extract (Soil or
Water)
Lab Sample ID: B060208ICPMW01

SDG ID: ICSH080502
Preparation Date: 6/2/2008
Run Sequence ID: R028602
Analysis Date: 06/04/2008 15:30
Units: mg/L
Matrix: Water

Analyte	Reported	Flag	Limit
Arsenic	0.200	U	0.1
Barium	0.100	U	0.05
Cadmium	0.100	U	0.05
Chromium	0.100	U	0.05
Lead	0.100	U	0.05
Selenium	0.200	U	0.1
Silver	0.100	U	0.05

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
B052908TCLPW01	FILTER PRESS CAKELB
ICSH080502-001	FILTER PRESS CAKE

U = The analyte of interest was not detected, to the limit of detection indicated

* Measured blank concentration exceeded the established control limit

FORM LTL-RSR-9.0(LTR)

Date Printed: 6/18/2008 12:32



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Pace Analytical Services, Inc.

Blank Report

Test: 7470 TCLP Extract (Soil or Water)

SDG ID: ICSH080502

Preparation Date: 6/2/2008

Lab Sample ID: B060208HGW01

Run Sequence ID: R028608

Analysis Date: 06/04/2008 13:15

Units: mg/L

Matrix: Water

Analyte	Reported	Flag	Limit
Mercury	0.00500	U	0.0025

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
B052908TCLP-1-1 (TCLP-1)	FILTER PRESS CAKELB
ICSH080502-001	FILTER PRESS CAKE

U = The analyte of interest was not detected, to the limit of detection indicated

* Measured blank concentration exceeded the established control limit

FORM LTL-RSR-9.0(LTR)

Date Printed: 6/18/2008 12:32



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Blank Report

Test: 8270 TCLP Extract (Soil or Water)

SDG ID: ICSH080502

Preparation Date: 6/4/2008

Lab Sample ID: B060408MSVWLS

Run Sequence ID: R028702

Analysis Date: 06/09/2008 10:57

Units: ug/L

Matrix: Water

Analyte	Reported	Flag	Limit
Pyridine	20	U	10
2,4,5-Trichlorophenol	12	U	6
2,4,6-Trichlorophenol	8.0	U	4
1,4-Dichlorobenzene	4.0	U	2
o-cresol	4.0	U	2
Hexachloroethane	8.0	U	4
Nitrobenzene	4.0	U	2
Hexachlorobutadiene	4.0	U	2
2,4-Dinitrotoluene	8.0	U	4
Hexachlorobenzene	8.0	U	4
Pentachlorophenol	40	U	20

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
ICSH080502-001	FILTER PRESS CAKE
T052908TCLP	FILTER PRESS CAKELB

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Blank Report

Test: 8260 TCLP Extracts (Soil or Water)

SDG ID: ICSH080502

Preparation Date: 6/10/2008

Lab Sample ID: B061008MVOWB1

Run Sequence ID: R028720

Analysis Date: 06/10/2008 10:33

Units: ug/L

Matrix: Water

Analyte	Reported	Flag	Limit
Vinyl chloride	50	U	25
1,1-Dichloroethene	50	U	25
2-Butanone	250	U	125
Chloroform	50	U	25
Carbon tetrachloride	50	U	25
Benzene	50	U	25
1,2-Dichloroethane	50	U	25
Trichloroethene	50	U	25
Tetrachloroethene	50	U	25
Chlorobenzene	50	U	25

Associated Samples

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
B060508SPLP	FILTER PRESS CAKELB
ICSH080502-001	FILTER PRESS CAKE

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Matrix Spike Report

Test: 6010B Metals TCLP-7 Extract (Soil or Water) SDG ID: ICSH080502
Preparation Date: 06/02/2008
Lab Sample ID: ICSH080502-001MS Run Sequence ID: R028602
Client Sample ID: FILTER PRESS CAKEMS Analysis Date: 6/4/2008 4:06:48PM
Units: mg/L
Matrix: Soil

Analyte	Sample Found	Spike Added	MS Found	Recovery	Limit
Arsenic	0.0033	4.00	4.2376	106%	75-125
Barium	0.3433	2.00	2.1069	88%	75-125
Cadmium	0.0286	0.0500	0.0759	95%	75-125
Chromium	0.0115	0.200	0.2168	103%	75-125
Lead	0.9023	0.500	1.2693	73%*	75-125
Selenium	0.0087	3.00	2.8814	96%	75-125
Silver	0	1.05	0.2493	24%*	75-125

Associated Samples	
<u>Lab Sample ID</u> B052908TCLPW01 ICSH080502-001	<u>Client Sample ID</u> FILTER PRESS CAKELB FILTER PRESS CAKE

= This Recovery is not flagged as an outlier because the 'Sample Found' amount exceeds by five times or more the 'Spike Added' amount.

* = RPD or percent recovery is outside the established control limits.

This report may show results for analytes that you have not requested. This is because your sample was chosen to validate a batch of samples. Any quality control exceedances (results with the '*' flag) for these analytes have no impact on your results.

The concentration values on this report may have non-significant digits tabulated. These are the same values used to compute the recovery and/or RPD values listed and are available during data review to verify our calculations.



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Matrix Spike Report

Test: 7470 TCLP Extract (Soil or Water) SDG ID: ICSH080502
Preparation Date: 06/02/2008
Lab Sample ID: ICSH080502-001MS Run Sequence ID: R028608
Client Sample ID: FILTER PRESS CAKEMS Analysis Date: 6/4/2008 1:38:07PM
Units: mg/L
Matrix: Soil

Analyte	Sample Found	Spike Added	MS Found	Recovery	Limit
Mercury	0.0001	0.200	0.1974	99%	85-115

Associated Samples	
Lab Sample ID	Client Sample ID
B052908TCLP-1-1 (TCLP-1)	FILTER PRESS CAKELB
ICSH080502-001	FILTER PRESS CAKE

= This Recovery is not flagged as an outlier because the 'Sample Found' amount exceeds by five times or more the 'Spike Added' amount.

* = RPD or percent recovery is outside the established control limits.

This report may show results for analytes that you have not requested. This is because your sample was chosen to validate a batch of samples. Any quality control exceedances (results with the '*' flag) for these analytes have no impact on your results.

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Duplicate Report

Test: 6010B Metals TCLP-7 Extract (Soil or Water) SDG ID: ICSH080502
Lab Sample ID: ICSH080502-001D Preparation Date: 6/2/2008
Client Sample ID: FILTER PRESS CAKE Run Sequence ID: R028602
Analysis Date: 06/04/2008 16:00
Units: mg/L
Matrix: Soil

Analyte	Parent Found	Duplicate Found	RPD	Limit
Arsenic	0.0033	0.0008	80%#	20
Barium	0.3433	0.3214	161%*	20
Cadmium	0.0286	0.012	123%#	20
Chromium	0.0115	0.0089	154%#	20
Lead	0.9023	0.5111	140%*	20
Selenium	0.0087	0.0056	146%#	20
Silver	0	0	8%	20

Associated Samples	
Lab Sample ID B052908TCLPW01 ICSH080502-001	Client Sample ID FILTER PRESS CAKE LB FILTER PRESS CAKE

U = The analyte of interest was not detected, to the limit of detection indicated

= RPD Value is not flagged as an outlier because either the parent found amount or duplicate found amount or both exceed five times the reporting limit

* = Value exceeded established control limits

The concentration values on this report may have non-significant digits tabulated. These are the same values used to compute the recovery and/or RPD values listed and are available during data review to verify our calculations.



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Duplicate Report

Test: 7470 TCLP Extract (Soil or Water) SDG ID: ICSH080502
Preparation Date: 6/2/2008
Lab Sample ID: ICSH080502-001D Run Sequence ID: R028608
Client Sample ID: FILTER PRESS CAKE Analysis Date: 06/04/2008 13:34
Units: mg/L
Matrix: Soil

Analyte	Parent Found	Duplicate Found	RPD	Limit
Mercury	0.0001	0.0001	9%	20

Associated Samples	
Lab Sample ID	Client Sample ID
B052908TCLP-1-1 (TCLP-1)	FILTER PRESS CAKELB
ICSH080502-001	FILTER PRESS CAKE

U = The analyte of interest was not detected, to the limit of detection indicated

= RPD Value is not flagged as an outlier because either the parent found amount or duplicate found amount or both exceed five times the reporting limit

* = Value exceeded established control limits

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BS/BSD Report

Test: 6010B Metals TCLP-7 Extract (Soil or Water) SDG ID: ICSH080502
Preparation Date: 06/02/2008
BS Sample ID: S060208ICPMW01 Run Sequence ID: R028602
Analysis Date: 06/04/2008 15:38
BSD Sample ID: S060208ICPW01D Units: mg/L
Matrix: Water

Analyte	Blank Spike			Blank Spike Duplicate			RPD	Limits	
	Added	Found	Recovery	Added	Found	Recovery		Recovery	RPD
Arsenic	2.00	1.8732	94%	2.00	1.9333	97%	3%	80-120	
Barium	2.00	1.8505	93%	2.00	1.9029	95%	3%	80-120	
Cadmium	0.0500	0.0474	95%	0.0500	0.0499	100%	5%	80-120	
Chromium	0.200	0.1916	96%	0.200	0.2038	102%	6%	80-120	
Lead	0.500	0.4998	100%	0.500	0.5169	103%	3%	80-120	
Selenium	2.00	1.7241	86%	2.00	1.7582	88%	2%	80-120	
Silver	0.0500	0.0508	102%	0.0500	0.052	104%	2%	80-120	

Associated Samples	
<u>Lab Sample ID</u> ICSH080502-001 B052908TCLPW01	<u>Client Sample ID</u> FILTER PRESS CAKE FILTER PRESS CAKELB

* = RPD or recovery is outside the established control limits

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Blank Spike Report

Test: 7470 TCLP Extract (Soil or Water)

SDG ID: ICSH080502

Preparation Date: 06/02/2008

Lab Sample ID: S060208HGW01

Run Sequence ID: R028608

Analysis Date: 06/04/2008 13:12

Matrix: Water

Units: mg/L

Analyte	Spike Added	Found	% Recovery	Limit
Mercury	0.00398	0.0041	103%	85-115

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
ICSH080502-001	FILTER PRESS CAKE
B052908TCLP-1-1 (TCLP-1)	FILTER PRESS CAKE LB

* = Recovery exceeded the established control limit

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Blank Spike Report

Test: 8260 TCLP Extracts (Soil or Water)

SDG ID: ICSH080502

Lab Sample ID: S061008MVOWB2

Preparation Date: 06/10/2008

Run Sequence ID: R028720

Analysis Date: 06/10/2008 09:12

Matrix: Water

Units: ug/L

Analyte	Spike Added	Found	% Recovery	Limit
Vinyl chloride	50.0	46.35	93%	60-140
1,1-Dichloroethene	50.0	60.05	120%	60-140
2-Butanone	50.0	37.26	75%	60-140
Chloroform	50.0	54.61	109%	60-140
Carbon tetrachloride	50.0	57.31	115%	60-140
Benzene	50.0	47.84	96%	60-140
1,2-Dichloroethane	50.0	57.4	115%	60-140
Trichloroethene	50.0	53.99	108%	60-140
Tetrachloroethene	50.0	57.78	116%	60-140
Chlorobenzene	50.0	52.18	104%	60-140

Associated Samples

Lab Sample ID

ICSH080502-001

B060508SPLP

Client Sample ID

FILTER PRESS CAKE

FILTER PRESS CAKELB

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Blank Spike Report

Test: 8270 TCLP Extract (Soil or Water)

SDG ID: ICSH080502

Lab Sample ID: S060408MSVWLS

Preparation Date: 06/04/2008

Run Sequence ID: R028702

Analysis Date: 06/09/2008 11:29

Matrix: Water

Units: ug/L

Analyte	Spike Added	Found	% Recovery	Limit
Pyridine	120	49.72	41%	20-160
2,4,5-Trichlorophenol	120	80.08	67%	20-160
2,4,6-Trichlorophenol	120	87.16	73%	20-160
1,4-Dichlorobenzene	120	48.24	40%	20-160
o-cresol	120	87.08	73%	20-160
Hexachloroethane	120	48.28	40%	20-160
Nitrobenzene	120	66.28	55%	20-160
Hexachlorobutadiene	120	56.64	47%	20-160
2,4-Dinitrotoluene	120	99.08	83%	20-160
Hexachlorobenzene	120	89.8	75%	20-160
Pentachlorophenol	120	78.44	65%	20-160

Associated Samples

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
ICSH080502-001	FILTER PRESS CAKE
T052908TCLP	FILTER PRESS CAKELB

* = Recovery exceeded the established control limit

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